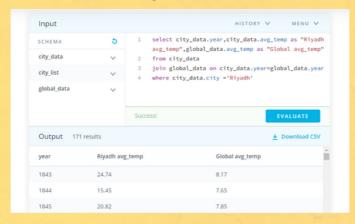
## **Exploring Weather Trends**

## **Steps:**

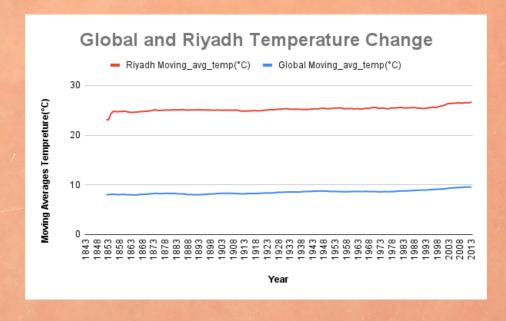
1: extract data from a database using SQL



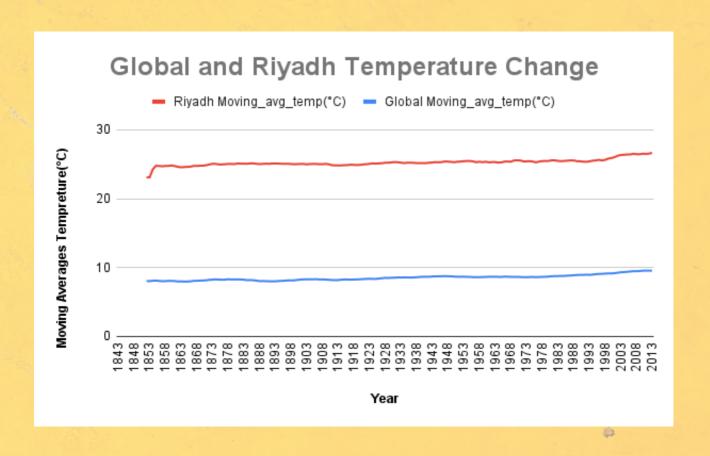
2: Moving Averages calculation using Google sheets:

E11 $\forall fx = AVERAGE(D2:D11)$					
	Α	В	С	D	E
- 1	Year	Riyadh avg_tem	Riyadh Moving_a	Global avg_temp	Global Moving_avg_ter
2	1843	24.74		8.17	
3	1844	15.45		7.65	
4	1845	20.82		7.85	
5	1846	25.21		8.55	
6	1847	25.21		8.09	
7	1848	24.56		7.98	
8	1849	24.8		7.98	
9	1850	24.34		7.9	
10	1851	25.03		8.18	
11	1852	24.85	23.501	8.1	8.045
12	1853	24.93	23.52	8.04	8.032
13	1854	24.72	24.447	8.21	8.088
14	1855	24.92	24.857	8.11	8.114

3: Create line chart:



## **Exploring Weather Trends**



## **Observations:**

- 1: Riyadh is hotter than the global average temperature by a nearly constant difference.
- 2: Global temperatures are increasing over the years.
- 3: Riyadh is 16 °C hotter than the global average tempreture.
- 4. Global average temperature from 1843 to 2013 is 8.5 °C while in Riyadh is 25 °C.